Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An OLED panel driving apparatus having an OLED in at each intersecting point intersection of a plurality of common anode lines and a plurality of common cathode lines, which are aligned in a matrix configuration, to form a pixel, the OLED panel driving apparatus further comprising:

a data driving circuit connected to a <u>the</u> plurality of common anode lines, and <u>having comprising</u> a plurality of data output <u>units unit</u> selectively connecting each of the common anode lines to a constant current source or <u>to</u> a high impedance terminal HIZ; and

a scan driving circuit connected to the plurality of common cathode lines, and having comprising a plurality of scan output units selectively connecting each of the common cathode lines at least to a high impedance terminal HIZ or to ground a grounding earth.

2. (Currently Amended) The OLED panel driving apparatus according to claim 1, wherein the each of the plurality of scan output units unit further comprises a high voltage terminal to selectively connect each of the common cathode lines to the high voltage terminal, to the high impedance terminal HIZ or

to ground the grounding earth.

- 3. (Currently Amended) The OLED panel driving apparatus according to claim 2, further comprising an OLED control circuit for generating various signals including a horizontal synchronization signal, a vertical synchronization signal and a display data signal.
- 4. (Currently Amended) The OLED panel driving apparatus according to claim 3, wherein the scan driving circuit <u>further</u> comprises:

a scan output unit;

a shift register unit for generating that generates a scan control signal C_{SCAN} with respect to the corresponding to each common cathode line; and

a control logic unit for executing that executes the logic processing of the scan control signal C_{SCAN} , supplied from the shift register unit, in order to generate a high impedance control signal C_{HIZ} , and to supply to for transmitting to the corresponding scan output unit.

5. (Currently Amended) The OLED panel driving apparatus according to claim 4, wherein <u>each of</u> the scan output <u>units</u> unit comprises:

an inverter gate, its including an input end being connected to the high impedance control signal end C_{HIZ} ;

a NOR gate, its one including a first input end being connected to the scan control signal end C_{SCAN}, and its the other a second input end being

connected to the high impedance control signal end C_{HIZ};

a NAND gate, its one including a first input end being connected to the scan control signal end C_{SCAN}, and its the other a second input end being connected to the an output end of the inverter gate;

a first level shifter being connected to the <u>an</u> output end of the NAND gate and converting <u>a</u> logic level into <u>to</u> the high voltage level;

a second level shifter being connected to the <u>an</u> output end of the NOR gate and converting <u>a</u> logic level into to the high voltage level;

a first PMOSFET having a gate connected to the <u>a</u> first level shift and a source connected to the high voltage terminal; and

a first NMOSFET having a gate connected to the <u>a</u> second level shift, a drain connected to the drain of the first PMOSFET, and a source being grounded, wherein

the <u>plurality of common cathode lines</u> are connected to the first PMOSFET and the drain of the first NMOSFET.

6. (Currently Amended) The OLED panel driving apparatus according to claim 4, wherein the shift register unit is configured to have shift registers as many as the number of the common cathode lines;

the vertical synchronization signal is applied to <u>a</u> data input end of a first row of a shift register in the shift registers;

the horizontal synchronization signal is applied to the all clock ends of the shift <u>registers</u> register; and

the <u>an</u> output of <u>one row each</u> of the shift registers is connected to a corresponding row of a sean control signal end C_{SCAN} in the <u>corresponding sean</u> output unit, and to a data input end of a next row of the shift register.

7. (Currently Amended) The OLED panel driving apparatus according to claim 6, wherein the control logic unit is configured to have include a number of 2-input XNOR gates as many as corresponding to the number of the common cathode lines;

ene <u>a first</u> input end of each of the XNOR gates is connected to <u>an</u> the output end of its <u>of a corresponding row of the shift register;</u>

the other <u>a second</u> input end of each of the XNOR gates is connected to the <u>an</u> output end of a next row of the shift register; and

the <u>an</u> output end <u>of each of the XNOR gates</u> is connected to the high impedance control signal end C_{HIZ} of its corresponding row of a corresponding the scan output unit.

8. (Currently Amended) The OLED panel driving apparatus according to claim 3, wherein the data driving circuit <u>further</u> comprises:

a data output unit;

a shift register/latch unit for sequentially shifting and storing the data applied to the <u>each</u> common anode line in accordance with the <u>a</u> control signal from the OLED control circuit; and

a PWM generating unit for converting the data supplied from the shift

register/latch unit into a <u>PWM</u> control signal PWM having various time <u>widths</u> width <u>varying</u> in accordance with gray level of the data, and supplying transmitting the <u>PWM</u> control signal to the <u>corresponding</u> data output unit.

- 9. (Currently Amended) The OLED panel driving apparatus according to claim 8, wherein <u>each of</u> the data output <u>units comprises</u> unit comprises:
 - a second PMOSFET and a third PMOSFET to form current mirror circuits;
- a third level shifter for converting the logic level of the PWM control signal

PWM supplied from the PWM generating unit into the high voltage level; and

a fourth PMOSFET for selectively connecting the <u>corresponding</u> common anode line to the constant current source and <u>setting</u> the high impedance terminal HIZ with "on"/"off" by the third level shifter.

- 10. (Original) The OLED panel driving apparatus according to claim 9, wherein each of the data output units further comprises comprising a second NMOSFET for grounding the common anode line with "on" by an outer control signal Reset in the "off" state of the fourth PMOSFET.
- 11. (Cancelled)
- 12. (Cancelled)

13. (New) A method for driving an OLED panel having an OLED at each intersection of a plurality of common anode lines and a plurality of common cathode lines, which are aligned in a matrix configuration to form a pixel, the method comprising:

applying constant current to the plurality of common anode lines by a PWM control signal having time widths varying in accordance with a gray level of displayed pixel data while sequentially scanning and converting each one of the common cathode lines to ground during a horizontal scanning time interval;

connecting the common cathode line selected to be scanned to ground during the horizontal scan time interval;

refreshing the common cathode line connected to ground by connecting the common cathode line to a predetermined high voltage level during a next horizontal scan time interval; and,

maintaining the common cathode line connected to the predetermined high voltage level in a high impedance state prior to scanning.